

Investigation Title: Utilization of Skylab (EREP) System for Appraising Changes in Continental Migratory Bird Habitat.

EREP Investigation No. 486

Period Covered: May 1974

NASA Contract No. T-4114B

Principal Investigations Management Office:

Lyndon B. Johnson Space Center
Houston, Texas 77058

Technical Monitor Name: Mr. R. E. Joosten

Principal Investigator and sponsoring institution name:

Mr. Harvey K. Nelson, Director
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Jamestown, North Dakota 58401

Type of Report: Monthly Progress

Overall Status:

We are continuing to process and analyze aircraft data collected on 12 May and 12 August 1973 in support of this investigation. Signatures for one 24-mile strip of aircraft data gathered on 12 August have been extracted. Ten different training categories have been selected. We have ranked the spectral channels in order of importance for separating these categories. Approximately seven of the twelve MSS channels available will be utilized for recognition mapping. Currently surface water thematic maps and associated statistics are being generated for two flight lines of aircraft data. No S-192 data products have yet been received.

Recommendations for Action:

During this reporting period we have clarified our requests for S-192 area coverage and data. We are requesting via our PIMO, CCT's for all spectral bands and all SDO's for approximately 15 seconds of data collected on 12 June 1973.

Expected Accomplishments During the Next Period:

The derivation of statistics on surface water conditions for 48 aircraft flight miles will be completed and analyzed. Any processing of S-192 data is being delayed until CCT's are received.

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(E74-10557) UTILIZATION OF SKYLAB (EREP)
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Significant Results:

None to report.

Summary Outlook:

Significant progress has been made in the processing of supporting aircraft data. The processing of EREP S-192 data remains a major effort of the investigation which is still to be undertaken.

Travel Summary and Outlook:

The program Co-Investigator (E. Work of ERIM) will travel to North Dakota for discussions with the Principal Investigator and to conduct a ground survey of the study area. This travel was undertaken in late May and will extend several days into the June reporting period.